



Europäisches Patentamt

European Patent Office

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(11) Publication number:

0 266 864
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 87307098.1

(51) Int. Cl. 4: E21B 29/00

(22) Date of filing: 11.08.87

(30) Priority: 06.11.86 US 927512

(43) Date of publication of application:
11.05.88 Bulletin 88/19

(64) Designated Contracting States:
BE DE FR GB IT NL SE

(88) Date of deferred publication of the search report:
24.05.89 Bulletin 89/21

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(54) Cutting tool for cutting well casing.

(57) A cutting tool (22) having elongate cutter arms (36) mounted about a pivot pin (40) for outward swinging movement. Cutting blades (58, 60) are mounted on the lower ends of the cutter arms (36) and have a plurality of closely fitting hard carbide cutting elements (90) secured thereto and forming an inclined leading planar cutting surface (82) inclined from the upper end of the associated blade (58, 60) at an angle A between one (1) degree and twenty (20) degrees relative to the direction of rotation. The cutting elements (90) have parallel rear and front faces (90A, 90B) connected by a peripheral side surface (90C) extending perpendicularly to the parallel faces (90A, 90B). Several embodiments of pivotally mounted cutter arms (36, 36A, 36B, and 36C) are illustrated including various blades (58, 60, 58F, 60F, 116, and 144) having a plurality of closely fitting cutting elements arranged thereon in a plurality of longitudinally and transversely extending rows for forming the leading inclined planar cutting surface.

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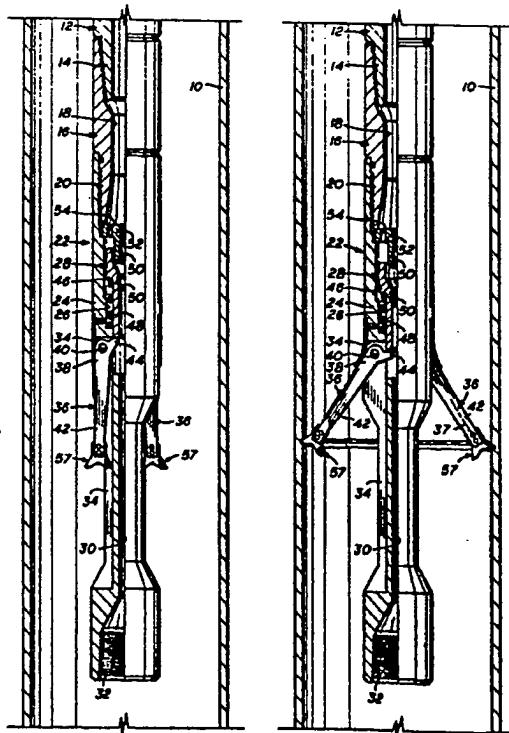


FIG. 1

FIG. 2

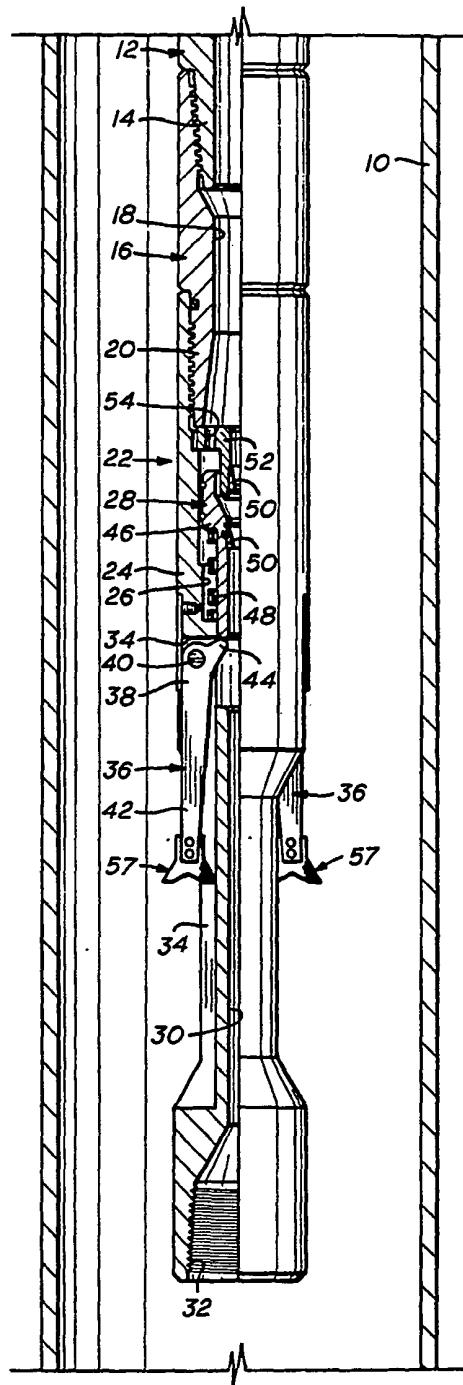


FIG. 1

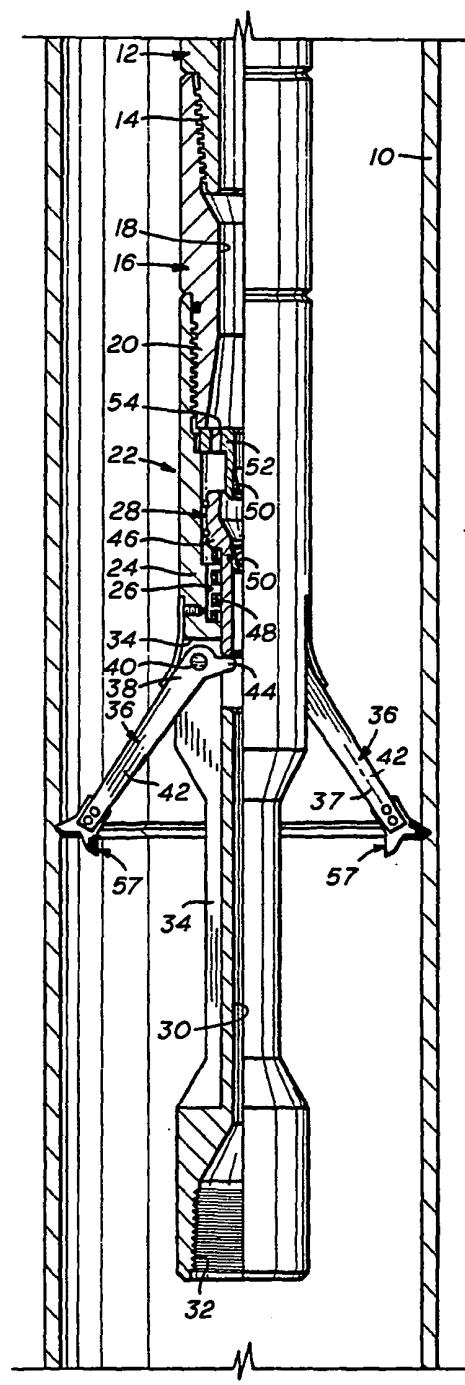


FIG. 2



EP 87 30 7098

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
D,A	US-A-3 331 439 (L. SANFORD) * Whole document *	1,7,8, 10,15, 19,23, 26,34, 36	E 21 B 29/00
A	US-A-3 059 708 (CANNON et al.) * Column 2, lines 43-50 *	1,7,8, 10,15, 19,23, 26,34, 36	
A	US-A-3 195 636 (B.J. CORDARY et al.) * Claim 1 *	1	
A	US-A-4 550 781 (E. KAGLER) * Whole document *	1	
A	US-A-3 145 790 (BRIDWELL et al.) * Claims 1-4 *	1	
	-----		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			E 21 B
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	08-03-1989	HEDEMANN, G.A.	
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